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TI- VIBRATION ISOLATING DEVICE

PN- 63-308241 A-

PD- December 15, 1988 (19881215)

AU- OKAZAKI TOSHIKAZU; DAIMARU SHIGENORI

PA- TOKAI RUBBER IND LTD [352400] (A Japanese Company or Corporation), JP
(Japan)

AN- 62-144354 -JP 87144354-

AD- June 10, 1987 (19870610)

IC- -4- F16F-013/00; G10K-011/16

CL- 22.2 (MACHINERY -- Mechanism & Transmission); 42.5 (ELECTRONICS --
Equipment)

SO- Section: M, Section No. 812, Vol. 13, No. 148, Pg. 17, April 11, 1989
(19890411)

AB- PURPOSE: To obtain a significant effect in the reduction of resonance magnification and in the attenuation of vibration, and further to provide with a good spring characteristic to simplify the structure, in a vibration isolation device in which a viscous fluid is filled, by mixing prescribed solid particles in the viscous fluid.

CONSTITUTION: Both ends of a cylindrical rubber body 2 are closed with fittings 4 and 6 to fill a prescribed viscous fluid 8 in the closed fluid housing space, and prescribed solid particles 10 are mixed in the viscous fluid. Thus, a greater attenuation characteristic can be developed, so that a significant effect can be obtained for the reduction of resonance magnification and in the attenuation of vibration, and further a good spring characteristic can be provided. Since the vibration attenuation performance can be improved only by mixing solid particles 10 in the viscous fluid 8, it is not necessary to provide a special mechanism. Accordingly, it is possible to simplify the structure as a vibration isolation system, enabling it to be applicable to even small size products, and further enabling the manufacturing man-hour and the number of parts to be reduced and inexpensive system to be constituted.

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